

Statement of Basis**LA0065731; AI 80577; PER20080001****Page 2****V. RECEIVING WATERS:**

The discharge is into a parish drainage ditch, thence into the West Pearl River in segment 090202 of the Pearl River Basin. This segment is listed on the 303(d) list of impaired waterbodies.

The designated uses and degree of support for Segment 090202 of the Pearl River Basin are as indicated in the table below^{1/}:

| Degree of Support of Each Use | | | | | | |
|--------------------------------------|-------------------------------------|---|---|------------------------------|-------------------------------|--------------------|
| Primary Contact Recreation | Secondary Contact Recreation | Propagation of Fish & Wildlife | Outstanding Natural Resource Water | Drinking Water Supply | Shell fish Propagation | Agriculture |
| Full | Full | Not Supported | Not Supported | N/A | N/A | N/A |

^{1/}The designated uses and degree of support for Segment 090202 of the Pearl River Basin are as indicated in LAC 33:IX.1123.C.3, Table (3) and the 2006 Water Quality Management Plan, Water Quality Inventory Integrated Report, Appendix A, respectively.

VI. ENDANGERED SPECIES:

The receiving waterbody, Subsegment 090202 of the Pearl River Basin, is not listed in Section II.2 of the Implementation Strategy as requiring consultation with the U. S. Fish and Wildlife Service (FWS). This strategy was submitted with a letter dated October 27, 2007 from Boggs (FWS) to Brown (LDEQ). Therefore, in accordance with the Memorandum of Understanding between the LDEQ and the FWS, no further informal (Section 7, Endangered Species Act) consultation is required. It was determined that the issuance of the LPDES permit is not likely to have an adverse effect on any endangered or candidate species or the critical habitat. The effluent limitations established in the permit ensure protection of aquatic life and maintenance of the receiving water as aquatic habitat.

VII. HISTORIC SITES:

The discharge is from an existing facility location, which does not include an expansion beyond the existing perimeter. Therefore, there should be no potential effect to sites or properties on or eligible for listing on the National Register of Historic Places, and in accordance with the 'Memorandum of Understanding for the Protection of Historic Properties in Louisiana Regarding LPDES Permits' no consultation with the Louisiana State Historic Preservation Officer is required.

VIII. PUBLIC NOTICE:

Upon publication of the public notice, a public comment period shall begin on the date of publication and last for at least 30 days thereafter. During this period, any interested persons may submit written comments on the draft permit and may request a public hearing to clarify issues involved in the permit decision at this Office's address on the first page of the statement of basis. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

Public notice published in:

Local newspaper of general circulation

Office of Environmental Services Public Notice Mailing List

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Ms. Rachel Davis
Water Permits Division
Department of Environmental Quality
Office of Environmental Services
P. O. Box 4313
Baton Rouge, Louisiana 70821-4313

IX. PROPOSED PERMIT LIMITS:**Final Effluent Limits:**

Subsegment 090202, West Pearl River-From Confluence with Holmes Bayou to the Rigolets, is listed on LDEQ's Final 2006 303(d) List as impaired for mercury. To date no TMDLs have been completed for this waterbody. A reopener clause will be established in the permit to allow for the requirement of more stringent effluent limitations and requirements as imposed by a TMDL.

Mercury

Based on the size and nature of the facility, the department believes there is little potential for the discharge to cause or contribute to the mercury impairment of this subsegment. Therefore, no limitations for mercury will be required of this facility.

Outstanding Natural Resource Water

The proposed discharge is into a Subsegment designated as an Outstanding Natural Resource Waterbody (ONRW). However, as per LAC 33:IX.1111.A, the ONRW designation only applies to those water bodies specifically listed in the Subsegment name (West Pearl River). Because this proposed discharge is small and will be made into an unnamed ditch, flowing 4.6 miles through French Branch, thence into Doubloon Branch, before reaching the West Pearl River, it is not expected to impact the West Pearl River. Therefore, for the purposes of the LPDES permit, the designated use of ONRW shall not apply.

OUTFALL 001

Final limits shall become effective on the effective date of the permit and expire on the expiration date of the permit.

| Effluent Characteristic | Monthly Avg. (lbs./day) | Monthly Avg. | Weekly Avg. | Basis |
|--------------------------------|--------------------------------|---------------------|--------------------|--|
| BOD₅ | 23 | 10 mg/l | 15 mg/l | Limits are set in accordance with the Areawide Policy for St. Tammany Parish for facilities of this treatment type and size. |

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| Effluent Characteristic | Monthly Avg. (lb./day) | Monthly Avg. | Weekly Avg. | Basis |
|-------------------------|------------------------|--------------|-------------|--|
| TSS | 34 | 15 mg/l | 23 mg/l | Since there is no numeric water quality criterion for TSS, and in accordance with the current Water Quality Management Plan, the TSS effluent limitations shall be based on a case-by-case evaluation of the treatment technology being utilized at a facility. Therefore, a Technology Based Limit has been established through Best Professional Judgement for the type of treatment technology utilized at this facility. |

*Concentration limits are used in accordance with LAC 33:IX.2709.F.1.b which states that mass limitations are not necessary when applicable standards and limitations are expressed in other units of measurement. LAC 33:IX.709.B references LAC 33:IX.711 which express BOD₅ and TSS in terms of concentration.

Other Effluent Limitations:**1) Fecal Coliform**

The discharge from this facility is into a water body which has a designated use of Primary Contact Recreation. According to LAC 33:IX.1113.C.5, the fecal coliform standards for this water body are 200/100 ml and 400/100 ml. Therefore, the limits of 200/100 ml (Monthly Average) and 400/100 ml (Daily Maximum) are proposed as Fecal Coliform limits in the permit. These limits are being proposed through Best Professional Judgement in order to ensure that the water body standards are not exceeded, and due to the fact that existing facilities have demonstrated an ability to comply with these limitations using present available technology.

2) pH

According to LAC 33:IX.3705.A.1., POTW's must treat to at least secondary levels. Therefore, in accordance with LAC 33:IX.5905.C., the pH shall not be less than 6.0 standard units nor greater than 9.0 standard units at any time.

3) Solids and Foam

There shall be no discharge of floating solids or visible foam in other than trace amounts in accordance with LAC 33:IX.1113.B.7.

X. PREVIOUS PERMITS:

LPDES Permit No. LA0065731: Issued: March 1, 2004
Expired: February 28, 2009

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| <u>Effluent Characteristic</u> | <u>Discharge Limitations</u> | | <u>Monitoring Requirements</u> | |
|--------------------------------|------------------------------|-------------------|--------------------------------|--------------------|
| | <u>Monthly Avg</u> | <u>Weekly Avg</u> | <u>Measurement Frequency</u> | <u>Sample Type</u> |
| Flow | Report | Report | Continuous | Recorder |
| BOD ₅ | 10 mg/l | 15 mg/l | 2/month | Grab |
| TSS | 15 mg/l | 23 mg/l | 2/month | Grab |
| Fecal Coliform Colonies | 200 | 400 | 2/month | Grab |

XI. ENFORCEMENT AND SURVEILLANCE ACTIONS:**A) Inspections**

A review of the files indicates that no inspections have been done within the last two years.

B) Compliance and/or Administrative Orders

A review of the files indicates that no compliance orders have been issued against the facility in the last two years.

C) DMR Review

A review of the discharge monitoring reports for the period beginning June 2006 through June 2008 has revealed the following violations:

| <u>Parameter</u> | <u>Outfall</u> | <u>Period of Excursion</u> | <u>Permit Limit</u> | <u>Reported Quantity</u> |
|------------------|----------------|----------------------------|---------------------|--------------------------|
| BOD | 001 | February 2007 | 10 mg/l | 15 mg/l |
| BOD | 001 | February 2007 | 15 mg/l | 29 mg/l |
| TSS | 001 | August 2007 | 15 mg/l | 15.5 mg/l |

XII. ADDITIONAL INFORMATION:

The Louisiana Department of Environmental Quality (LDEQ) reserves the right to impose more stringent discharge limitations and/or additional restrictions in the future to maintain the water quality integrity and the designated uses of the receiving water bodies based upon additional water quality studies and/or TMDLs. The LDEQ also reserves the right to modify or revoke and reissue this permit based upon any changes to established TMDLs for this discharge, or to accommodate for pollutant trading provisions in approved TMDL watersheds as necessary to achieve compliance with water quality standards. Therefore, prior to upgrading or expanding this facility, the permittee should contact the Department to determine the status of the work being done to establish future effluent limitations and additional permit conditions. In accordance with LAC 33:IX.2903., this permit may be modified, or alternatively, revoked and reissued, to comply with any applicable effluent standard or limitations issued or approved under sections 301(b) (2) Cc and CD); 304(b) (2); and 307(a) (2) of the Clean Water Act, if the effluent standard or limitations so issued or approved:

1. Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
2. Controls any pollutant not limited in the permit; or
3. Require reassessment due to change in 303(d) status of waterbody; or
4. Incorporates the results of any total maximum daily load allocation, which may be approved for the receiving water body.

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Final effluent loadings (i.e. lbs/day) have been established based upon the permit limit concentrations and the design capacity of 0.2716 MGD.

Effluent loadings are calculated using the following example:

$$\text{BOD: } 8.34 \text{ lb/gal} \times 0.2716 \text{ MGD} \times 10 \text{ mg/l} = 23 \text{ lb/day}$$

At present, the Monitoring Requirements, Sample Types, and Frequency of Sampling as shown in the permit are standard for facilities of flows between 0.10 and 0.50 MGD.

Effluent Characteristics**Monitoring Requirements**

| | <u>Measurement</u> | <u>Sample</u> |
|-------------------------|---------------------------|----------------------|
| | <u>Frequency</u> | <u>Type</u> |
| Flow | Continuous | Recorder |
| BOD ₅ | 2/month | Grab |
| Total Suspended Solids | 2/month | Grab |
| Fecal Coliform Bacteria | 2/month | Grab |
| pH | 2/month | Grab |

XIII. TENTATIVE DETERMINATION:

On the basis of preliminary staff review, the Department of Environmental Quality has made a tentative determination to reissue a permit for the discharge described in this Statement of Basis.

XIV. REFERENCES:

Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 8, "Wasteload Allocations / Total Maximum Daily Loads and Effluent Limitations Policy," Louisiana Department of Environmental Quality, 2005.

Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 5, "Water Quality Inventory Section 305(b) Report," Louisiana Department of Environmental Quality, 1998.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Chapter 11 - "Louisiana Surface Water Quality Standards," Louisiana Department of Environmental Quality, 2004.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Subpart 2 - "The LPDES Program," Louisiana Department of Environmental Quality, 2004.

Low-Flow Characteristics of Louisiana Streams, Water Resources Technical Report No. 22, United States Department of the Interior, Geological Survey, 1980.

Index to Surface Water Data in Louisiana, Water Resources Basic Records Report No. 17, United States Department of the Interior, Geological Survey, 1989.

LPDES Permit Application to Discharge Wastewater, Louisian Water Service, Inc, Quail Ridge Wastewater Treatment Plant, August 22, 2008.